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Science and Weapons Daily Review

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1	USSR: RESEARCH ON AIDS-LIKE VIRUS	
	A reliable source reported that in 1981 the Soviets were conducting research to develop a vaccine for an AIDS-like virus to protect military personnel. We believe that Soviet scientists obtained the virus in African countries where it occurs naturally.	;
3	INDONESIA: SUHARTO ENDORSES DEVELOPMENT OF BIOCHEMICAL WARFARE INDUSTRY	;
	Initially, Indonesia probably will concentrate on developing the capability to produce detection and protective equipment to provide a defensive capability against the threat of chemical/biological warfarea threat it perceives is growing in the region	
4	KEY JUDGMENTS: WESTERN EUROPE: TRENDS IN BIOTECHNOLOGY COMMERCIALIZATION	
	The industrial commercialization of biotechnology is being supported by governmental and industrial programs in many West European countries. Within six to eight years, we expect major multinational corporations in these countries to compete with Japan and the United States for markets in the pharmaceutical, agricultural, chemical, and energy-related	
	industries industries	
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Science and \	Weapons		
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Daily Review			
USSR: RESEARCH ON	AIDS-LIKE VIRUS		25X
A reliable source	reported that in 1981 a	a Moscow facility had developed a	
virus that weaken	ed or destroyed the hu	ıman immune system. Research was	
under way to deve personnel.	elop a vaccine for the	protection of Soviet military	25X
		The viral effects	25X 25X
reported closely n	natch those of acquired	d immune deficiency syndrome (AIDS).	
			25X
disease apparently into the United St	y was transmitted to H tates. Originally descri	Zairian patients before 1977. The aiti, from which it was introduced bed as a disease of homosexuals reported in the general US	25 X
Comment:			
point source (Hait related research of resulted from a nat warfare (BW) agent BW agent because development of al	ti) and the Soviets repo on an AIDS-like virus, v atural disease outbreak nt dissemination. We b e the variability of the in effective protective v United States almost ce	d into the United States from a single ortedly have been doing military—we have investigated whether AIDS or an incident of biological pelieve AIDS is an unlikely candidate virus would seriously hinder the vaccine for the user. We conclude ertainly resulted from a natural	25X
		ire between 1975 and 1979, and it is S virus to the USSR for research	
]		25 X
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as opposed to the Soviets having developed it via genetic engineering or other advanced biotechnical methods	25X1 25X1
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NDONESIA: SUHARTO ENDORSES DEVELOPMENT OF BIOCHEMICAL WARFARE INDUSTRY	25X
The Indonesian press reports that President Suharto has endorsed a request from the Army Chief of Staff for the development of a biochemical warfare industry "because other parties are already using poisonous gas."	25X
Comment:	
Since 1980 Indonesia has demonstrated a heightened interest in acquiring defensive chemical/biological warfare (CBW) capabilities. The reported development of a biochemical warfare industry probably pertains to the production of detection and/or protective equipment because Indonesia has almost no capability to defend itself against a CBW threat. Indonesia perceives the use of chemical warfare in conflicts in Southeast Asia and the acquisition of chemical warfare capabilities by neighboring states as a growing threat to the region	25X
Indonesian actions taken in response to the threat include establishing a nuclear, biological, and chemical (NBC) warfare center at Bogor, West Java; training officers in West German military schools as NBC specialists; training NBC officers domestically; announcing tenders for the purchase of gas masks for the police and armed forces; and participating actively in the negotiations on a chemical weapons ban at the Conference on Disarmament in Geneva	25X
Although Indonesia probably will not initiate efforts in the near future to acquire an offensive CBW capability, the developing pattern of CBW-related actions put it among the nations with a long-range potential for CBW proliferation.	25X 25X

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EY JUDGMENTS: WES	STERN EUROPE: TRENDS	IN BIOTECHNOLOGY COMMERCIALIZATION	ON 2
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biotechnology app industrial program become a strong markets within six strongest competi Sweden, Switzerla	lications, we believe that is to promote biotechnoworldwide competitor in to eight years. West Etive positions are West and, and France. We beli	ne United States and Japan in at recent governmental and logy will enable Western Europe to health care and agricultural uropean countries having the Germany, the United Kingdom, ieve West European companies will products to Third World	2
	act Euronean firms are r	oursuing wide-ranging biotechnology	2
interests, we expe in markets in whic include the four to	ct competition mainly fr th they have been tradit op areas for biotechnolo	rom large multinational companies ionally strong. These markets gy applications: pharmaceuticals, technology, and energy-related	
applications.	sta, large scale process	toomiology, and energy relates	2
the year 2000 rang total product sales the current world dollars. The estin 500 million dollars because the critic	ge from 15 billion dollar s. This market projectio semiconductor market, nate of the 1983 worldw s. Better market predicti	or biotechnology-related products by as to over 100 billion dollars in on is of the same magnitude as which is approximately 25 billion wide biotechnology market is about ions are not yet possible, and political factors affecting od or defined.	2
At present the We	est European countries g	generally have some top quality ustries and engineering institutes	
	1		25
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-	•	tion. Nevertheless, rope have been hampered by several	
research, de	qualified personnel to co evelopment, and engineer of scientists and enginee	ing, caused in part by	
Difficult trai	nsitions from the laborato	ory to the market place.	
Relatively fe	ew firms engaged in inno	vative research.	
Lack of coo	peration within the Europ	ean Community.	25 X 1
particular, their su	pport for applied biotechi past three years. Efforts	to overcome these deficiencies; in nology research has increased s to promote biotechnology in	
expenditure	ng that is probably equives and that is intended to seell as encourage supports.	help stem emigration of	
Financial inc	centives for small applied	research firms.	
establishing	cooperative ventures by ing technology parks and ce nt, and in investing funds.		
Programs to	o develop trained manpov	ver.	
Internationa	l development agreement	ts.	
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SECRET	2
Unlike most US Government programs supporting basic research in biotechnology, these biotechnology-related government programs in Europe support product-oriented R&D and are directed toward devel international competitiveness.	
Various development agreements have contributed to the internation of industrial proprietary information that could affect US sales. This flow of information and technology is, and probably will continue to net loss to the United States. However, we believe US technology cenhanced through selective international cooperation and exchanges exploit West European strengths. We believe also that biotechnology applications developed in Western Europe probably will continue to I	be, a can be that V
transferred to the USSR and its allies	

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